

CLAIMS

WE CLAIM:

1. A widow stop comprising:
  - a housing defining a cavity and having mount structure capable of being mounted to a wall having a thickness between a range of thicknesses from a minimum thickness to a maximum thickness;
  - a bolt mounted within the cavity and moveable between a retracted position wherein the bolt is substantially located within the housing and a locking position wherein the bolt extends from the cavity.
2. The window stop of claim 1 further comprising means for releasably holding the bolt in the retracted position.
3. The window stop of claim 1 further including biasing means between the housing and the bolt for biasing the bolt towards the extended position.
4. The window stop of claim 1 wherein the mount structure further comprises:
  - a cover defining a lip; and
  - a resilient tab having a base portion mounted to the wall and an engagement surface spaced from and in opposed relation to the lip wherein the lip and the surface are configured to receive a portion of the wall therebetween.
5. The window stop of claim 4 wherein the engagement surface is inclined with respect to the lip.
6. The window stop of claim 4 wherein the engagement surface is generally adapted to face away from the wall.

7. The window stop of claim 4 wherein the engagement surface comprises a ridge.

8. The window stop of claim 4 wherein the engagement surface comprises two ridges.

9. The window stop of claim 4 wherein the engagement surface comprises three ridges.

10. The window stop of claim 4 wherein the engagement surface comprises a plurality of ridges.

11. The window stop of claim 4 wherein the engagement surface comprises a protrusion.

12. The window stop of claim 4 wherein the engagement surface comprises a plurality of protrusions.

13. The window stop of claim 1 wherein the bolt slides generally linearly between the retracted position and the locking position.

14. The window stop of claim 1 wherein the bolt rotates between the retracted position and the locking position.

15. The window stop of claim 1 wherein the housing further comprises an extension member extending from an exterior surface of the housing.

16. The window stop of claim 15 wherein the extension member is adapted to cooperate with a notch in an opening of the wall.

17. A housing of a window or door hardware component, the housing being mounted in a recess of a frame member, the frame member having a thickness, the housing comprising:

a body having a cover defining a lip, the body further having a tab having an inclined engagement surface in spaced relation to the lip, wherein the engagement surface and lip are adapted to cooperatively engage the frame member, the frame member selected from one of a plurality of frame members having a minimum thickness and a maximum thickness.

18. The housing of claim 17 wherein the engagement surface generally faces away from the end wall.

19. The window stop of claim 17 wherein the engagement surface comprises a plurality of ridges.

20. The window stop of claim 17 wherein the engagement surface comprises a protrusion.

21. The window stop of claim 17 wherein the engagement surface comprises a plurality of protrusions.

22. A widow stop comprising:

a housing defining a cavity and having means for mounting the housing to a wall having a thickness chosen from any of a plurality of thicknesses within a range of thicknesses between a minimum thickness and a maximum thickness;

a bolt mounted within the cavity and moveable between a retracted position wherein the bolt is substantially located within the housing and a locking position wherein the bolt extends from within the cavity;

means for releasably holding the bolt in the retracted position; and

biasing means between the housing and the bolt for biasing the bolt towards the extended position.

23. A widow stop for use in a window assembly having an upper sash and a lower sash, each sash slidably mounted in a master frame, each sash having a top rail a bottom rail and a pair of vertical stiles, each vertical stile having a front wall, the window stop comprising:

a housing defining a cavity, the housing having a cover defining a lip, the housing further having a tab having an inclined engagement surface in spaced relation to the lip, wherein the engagement surface and lip are adapted to cooperatively engage the frame member, the frame member being any of a plurality of frame members having a thickness between a minimum thickness and a maximum thickness, the housing further having a projection extending into the cavity;

a bolt operably mounted within the cavity and moveable between a retracted position wherein the bolt is substantially located within the housing and thereby out of a path of movement of the lower sash and an extended position wherein the bolt extends from within the cavity and into the path of movement of the lower sash;

means for biasing the bolt towards the extended position, and

an actuator pivotally mounted to the bolt having a hook at one end for engaging the projection to retain the bolt in the retracted position when the actuator is in a locked position, the actuator pivotable from the locked position to a release position wherein the hook disengages from the projection to permit the bolt to move towards the extended position.

24. A widow stop for use in a window assembly having an upper sash and a lower sash, each sash slidably mounted in a master frame, each sash having a top rail a bottom rail and a pair of vertical stiles, each vertical stile having a front wall, the window stop comprising:

a housing defining a cavity, the housing having a cover defining a lip, the housing further having a tab having an inclined engagement surface in spaced relation to the lip, the engagement surface comprising a plurality of ridges, wherein the engagement surface and lip are adapted to cooperatively engage the frame member, the frame member being any of a plurality of frame members having a thickness between a minimum thickness and a maximum thickness, the housing further having a projection extending into the cavity;

a bolt operably mounted within the cavity and moveable between a retracted position wherein the bolt is substantially located within the housing and thereby out of a path of movement of the lower sash and an extended position wherein the bolt extends from within the cavity and into the path of movement of the lower sash;

means for biasing the bolt towards the extended position, and

an actuator pivotally mounted to the bolt having a hook at one end for engaging the projection to retain the bolt in the retracted position when the actuator is in a locked position, the actuator pivotable from the locked position to a release position wherein the hook disengages from the projection to permit the bolt to move towards the extended position.

25. A widow stop comprising:

a housing defining a cavity and having a cover, the housing further having a tab in confronting relation to the cover wherein a space is defined therebetween, the tab having a variable surface wherein the tab and cover cooperate and are adapted to receive a wall having a variable thickness;

a bolt mounted within the cavity and moveable between a retracted position wherein the bolt is substantially located within the housing and a locking position wherein the bolt extends from the cavity.

26. The stop of claim 25 wherein the variable surface is a stepped surface.

27. The stop of claim 25 wherein the variable surface is an angled surface.

28. A housing of a window or door hardware component, the housing being mounted in a recess of a frame member, the recess further having a notch, the housing comprising:

a body defining configured for mounting within the recess, the body having an extension member configured to be received by the cutout.

29. The housing of claim 28 wherein the extension member and the cutout cooperate to properly orient the body within the recess.